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Production, by D. P. Andryunov, M. Z. Gendel'man,
474 pp.
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Jan 69

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A Portable Neutron Generating Tube Using Ion
Acceleration, by E. A. Ab, G. M. Andrianov, R. I.
Plotnikov, 3 pp.

RUSSIAN, per, Priboiy i Tekh Eksper, No 1, 1961,
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AEC UCRL Tr-704

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(DC-4700)

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JPRS 10364

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siloxanes, by K. Andryanov, S. Dzhenchel'skaya,
Yu. Petrashko, 4 pp.

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Products of Turpentine Polymerization and
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Scientific - Chemistry

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D-1796 CTS

Catalytic Polymerization of Polyphenyl- and Poly
(dimethylphenyl) siloxanes, by K. Andrianov,
S. Dzhenchel'skaya and Yu. Petrashko, 4 pp.

RUSSIAN, per. Zhur Obshch Khim, Vol XXVIII, No 3,
1958, pp 685-688.

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May 59

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K. Andrianov, Valuable Materials - Organosilicon
Compounds Should Be Used More Extensively,
Promyshlanno-Ekonomicheskaya Gazeta, No 74 (218),
21 June 1957.

Sum 1003
SIR-707

Controlled Modification of the Properties of Macro-
molecular Compounds, by E. Andrianov. 78
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1968, pp 1093-1096.
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Sci-Chem
May 64

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Esters
Alkyl and Aryl-Substituted Ortho-Esters of Silicic
Acids. I. Preparation of Organomagnesium
Compounds Without Ether in the Presence of
Tetraalkoxy-silicane, by K. Andrianov, O. Gribanova,
B. P.
RUSSIAN, *Per Zhur Obshch Khim*, 1938, Vol ~~VIII~~ *VI*, No 6,
pp 552-557

SLA 59-20729

Sci
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Vol 3, No 1

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Method of Obtaining 1, N-Dimethylpolydimethyl
Siloxane, by K. A. Andrianov, N. V. Sobolevsky.

RUSSIAN,

FTD-RT-64-4949

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Method of Preparing Heat-Resistant Coatings,
by H. N. Froberg, K. A. Andrianov.

RUSSIAN,

FTD-64-603

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Synthesis of Polyferroorganosiloxanes and
Polyferroaluminosiloxanes, by K. A. Andrianov,
T. N. Gzina, 9 pp.

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Vol IV, No 5, 1962, pp 678-682.

Navy Tr 3290/HRL 920

Sci - Chem
Jan 63

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63-18893

Andrianov, K. A., Kurakov, G. A., Khananashvili, L. M., and Lomonosova, T. A.
TRANSAMINATION OF BIS(DIETHYLAMINO) DERIVATIVES OF SILANES AND OF OCTAMETHYLCYCLO-TETRASILAZANE WITH AROMATIC AMINES.

15 Jul 63 [8p] 7 refs

Order from OTS or SLA \$1.10

63-18893

Trans. of Zhurnal Obshch[ei] Khim[i] (USSR)
1963, v. 33 [no. 4] p. 1294-1299.

DESCRIPTORS: *Silanes, Anilines, *Amines, Ethyl radicals, Methyl radicals, Alkyl radicals.

The following new compounds were synthesized: bis(diethylamino)methylsilane, bis(diethylamino)ethylaminoethylsilane, diethylaminophenylaminoethylsilane, and bis(phenylamino)ethylsilane. By means of a transamination reaction, polymers were prepared and their (Chemistry--Organic, TT, v. 10, no. 11) (over)

1. Title: Benzidine
2. Title: bis-(Diethylamino) ethylsilane
3. Title: bis-(Diethylamino) methylsilane
4. Title: Diethylamino phenylamino ethylsilane
5. Title: Octamethyl cyclotetra silazane
6. Title: bis-(Phenylamino) ethylsilane
7. Title: Transamination
 - I. Andrianov, K. A.
 - II. Kurakov, G. A.
 - III. Khananashvili, L. M.
 - IV. Lomonosova, T. A.

Office of Technical Services

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Andrianov, K. A.
METALLOORGANIC POLYMERS, 1963, 400p
Order from Scripta Technica, Inc., 1000 Vermont
Ave., N. W., Washington, 5, D. C.

Trans. of unidentified Russian mono., n. p., n. d.

DESCRIPTORS: *Metalorganic compounds, *Polymers,
*Silicones, Synthesis (Chemistry).

(Chemistry--Organic, TT, v. 10, no. 12)

63-22639

I. Andrianov, K. A.
II. Scripta Technica, Inc.,
Washington, D. C.

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Synthesis of Organosilicon Compounds Containing
the Methacrylic Group, by K.A. Andrianov and
A.K. Dabagova.

RUSSIAN, per, Dok Akad Nauk SSSR, 1958, vol. 119
no. 6, pp. 1149-1151.

ATB-63R-79R

K. A. Andrianov

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Catalytic Cleavage of Dimethylcyclosiloxanes in Presence
of Dichlorodimethylsilane, by K. A. Andrianov,
V. V. Severnyi, 5 pp.

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Synthesis of Liquid 1,n-Hexamethylpoly(Phenylethyl)
Methylsiloxanes and Investigation of Their
Properties, by K. A. Andrianov, A. A. Zhdanov, 8 pp,

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63-18610

Andrianov, K. A.
INVESTIGATIONS IN THE REALM OF ALKYL- AND
ARYL- SUBSTITUTED ESTERS OF SILICIC ACID. IV.
THE MECHANISM OF HYDROLYSIS AND ANHYDRIDE
FORMATION OF ALKYLTRIETHOXYMONOSILANES
(Issledovaniya v Oblasti Alkil- i Aril-Zameshchennykh
Esterov Kremnevoi Kisloty. IV. O Mekhanizme Gidroliza
i Anhidrizatsii Alkil-Trietoksimonosilanol). [1963]
[24p] (foreign text included) 6 refs
Order from OTS or SLA \$2.60

63-18610

Trans. of Zhurnal Obshchei Khimii (USSR) 1938, v. 8,
no. 13, p. 1255-1263.

DESCRIPTORS: *Silicic acids, *Silanes, Alkyl
radicals, Alkoxyl radicals, Hydrolysis, Anhydrides,
Butyl radicals, Esters, Substitution reactions.

(See also 59-20729)
(Chemistry--Organic, TT, v. 10, no. 11)

- I. Title: Alkyltriethoxy
monosilanes
- I. Andrianov, K. A.
- II. Title: Mechanism ...
- III. Title: Mekhanizme ...

55399

Office of Technical Services

Reactions of Alkoxy (Chloromethyl) Menthylsilanes
With Sodium Diethyl Phosphate and With Sodium
Dimethylphosphinate, by K. A. ~~AKK~~ Andrianov, I. K.
Kuznetsova, 3 pp.

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Polycondensation as a Method for the Preparation of
Polydialkylsiloxane and Polyaluminodialkylsiloxane
Elastomers, by K. A. Andriyanov, A. A. Zhdanov, 4 pp.

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Reactions of Bis(trimethylsiloxy)dichlorosilanes With
Alcohols, Phenols, and Alkoxides, by K. A.
Andriyanov, V. V. Severnyi, 5 pp.

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On the ~~Hydro~~telomerization Reaction of Dimethylcyclosiloxanes.
oxanes. Article 2. Preparation of Linear α -Chloro-
Trimethylsiloxydimethylsiloxanes, by K. A.
Andrianov, V. V. Severnyi, 5 pp.

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1961, pp 1610-1614.

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Communication 1, Preparation of Linear α,ω -
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Andrianov, K. A., Bochkareva, G. P. and others.
POLYANHYDRIDES FROM PHTHALIC ACIDS AND
MIXED PHTHALICADIPIC ACIDS. [1962] 5p.
Order from ATS \$6.25 ATS-41P60R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2, no. 5, p. 793-796.

DESCRIPTORS: *Anhydrides, Hydrides, Polymers,
Synthesis, *Phthalic acids, acids, *Adipic acids,
Chemical reactions.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17301

I. Andrianov, K. A.
II. Bochkareva, G. P.
III. ATS-41P60R
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

0221821

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Synthesis of Cyclic Polyorganosiloxanes Containing
Various Groups in the Ring, by K. A. Andrianov, S. E.
Yakushkina, pp 3

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Telomerization of Cyclodimethylsiloxanes. Communication
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Polymers With Inorganic Principal Chains in Their
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pp 26-41. 9093611.

AEC Tr-4470

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Interaction of metals and organic silicium compounds
containing hydroxyles

Über die Wechselwirkung von Metallen mit hydroxylhaltigen
siliziumorganischen Verbindungen

Izvest. Akad. Nauk SSSR, 9, No. 9, 1076-1079 (1958)

356 - German

E u r a t o m

Methylfluoromethylchlorosilanes, by K. A. Andrianov,
I. A. Zolotarev, K. P. Golnevich, 3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 10,
1960, pp 3380-3382.

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Telomerization of Dimethylcyclsiloxanes.
Communication 4. Reactions With Silicon Tetrachloride,
by K. A. Andrianov, V. V. Severnyi, 5 pp.

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RESEARCH ON CHEMISTRY OF AGROCHEMICALS
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1959, pp 1622-1623.

ATS RJ-2190

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Polyorganometallosiloxanes. Communication 2.
Synthesis of Polyorganocaluminocobaltosiloxanes and
Polyorganocaluminonickelosiloxanes, by K. A.
Andriyanov, A. A. Zhdanov, 4 pp.

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Telomerization of Dimethylcyclsiloxanes,
Communication 3. Telomerization Reactionns with
Dichloromethylvinylsilane and Dichloromethylphenyl-
silane, by K. A. Andrianov, V. V. Severnyi, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel. Khim Nauk, No 10,
1961, pp 1788-1791.

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Reaction of Trialkyl (or Aryl) Silanols With
(Ethoxymethylsilyl)methyl Dimethylphosphinates,
by K. A. Andrianov, I. K. Kuznetsova, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 10, 1961, pp 1792-1794.

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Polymers with Inorganic Principal Molecular Chains,
by K. A. Andrianov.

RUSSIAN, mono, Polymery s Neorganicheskimi Glav-
nymi Isopyami Molekul, Moscow, 1962.

*Scripta Technica Inc

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Andrianov, K. A.
NEW WAYS OF PREPARING RESINOUS, FILM-
FORMING MATERIALS ON THE BASE OF SILICO-
ORGANIC COMPOUNDS (O Novykh Putyakh Polucheniya
Smolookraznykh Plenkoobrazuyushchikh Veshchestv na
Osnove Kremniorganicheskikh Soedinenii). [1963]
[21p] (foreign text included) 32refs
Order from OTS or SLA \$2.60 63-18611

Trans. of Promyshlennost' Organicheskoi Khimii
(USSR) 1939, v. 6, no. 4/5, p. 203-207.

DESCRIPTORS: *Plastic films, *Thermosetting
plastics, Heat-resistant plastics, Silicon compounds,
*Silicones, Substitution reactions, Pressure,
Synthesis (Chemistry), *Varnishes.

(Materials--Plastics, TT, v. 10, no. 10)

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I. Andrianov, K. A.

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Investigation of the Influence of Organopoly-
siloxane Coatings on the Adhesion of Ice to
Various Surfaces, by K. A. Andrianov, B. V.
Deryagin, N. N. Zakhavayeva, M. V. Sobolevskiy,
and M. V. Talayev, 9 pp.

Russian, per, Zhur Prik Khim, Vol XXXII, No 12,
1959, pp 2682-2690

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Reactions of Chloroalkylalkoxysilanes with Polyhydric
Alcohols, by E. A. Andrianov, M. A. Golubenko, 6 pp.

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No 11, 1959, pp 3598-3601.

ATIC MCL-576/III

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The Interaction of Alcohols with Triethylhydroxysilane,
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No 11, 1959, pp 3752-3753.

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The Reactions of Chloroalkylalkylalkylalkoxys
With Polyhydric Alcohols, by K. A. Andrianov,
M. A. Golubenko, 4 pp.

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Methylalkoxychlorosilanes, by K. A. Andrianov,
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Synthesis of Cyclic and Linear Organosiloxanes with
Mixed Aliphatic Radicals at the Silicon Atom, by
K. A. Andrianov, M. A. Sipyagina, T. A. Ugarova,
5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol. XXIX, No 12,
1959, pp 4059-4062.

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The Synthesis of low Molecular Weight Polyorganosiloxanes of Regular Structure, by K. A. Andrianov, T. N. Ganina, N. N. Sokolov, 4 pp, *et al.*

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Methylalkoxychlorosilanes, by K. A. Andrianov,
A. A. Kasakova, 5 pp.

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No 11, 1959, pp 3754-3757.

ATIC MCL-576/INT

Sci. - Chem

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Reactions of Chloroalkylalkoxysilanes with Polyhydric
Alcohols, by K. A. Anđrianov, M. A. Golubenko, 6 pp.

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No 11, 1959, pp 3598-3601.

ATIG MCL-576/III

Sci - Chem

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On the Synthesis of Dihydric Alcohols of the
Siloxane Series. 1. The Interaction of Chloromethyl-
dimethylchlorosilane and Bis (chloromethyl) tetra-
methyldisiloxane With Sodium Glycolate, by K. A.
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pp 1213-1216.

CB

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Sci
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Synthesis of Some Triethylsiloxyalkoxytitanes, by
K. A. Andrianov, V. V. Astakhin, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXVII, No 5,
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CB

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Andrianov, K. A. and Zhdanov, A. A.
POLY(ORGANOMETALLOSILOXANES). II. SYNTHESIS OF POLY(ORGANOALUMINOCOBALTOSILOXANES) AND POLY(ORGANOALUMINONICKELOSILOXANES). [1960] 5p.
Order from ATS \$7.50

ATS-15N48R

Trans. of *Akad[emiya] Nauk SSSR. Otdel[eniye]
Khim[icheskikh] Nauk. Izvest[iya] 1959, no. 9,
p. 1590-1594.

1. Silicones--Synthesis
2. Aluminum compounds (Organic)--Synthesis
3. Cobalt compounds (Organic)--Synthesis
4. Nickel compounds (Organic)--Synthesis
- I. Andrianov, K. A.
- II. Zhdanov, A. A.
- III. Title: Synthesis...
- IV. ATS-15N48R
- V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 7)

61-12663

Andrianov, K. A., Zhdanov, A. A., and Asnovich,
Ye. Z.
POLY(ALUMINOPHENYLSILOXANES), INFUSIBLE
BUT SOLUBLE POLYMERS. [1960] 7p.
Order from ATS \$9.85 ATS-16N48R

Trans. of *Akad[emiya] Nauk SSSR. Otdel[eniye]
Khim[icheskikh] Nauk. Izvest[iya] 1959, no. 10,
p. 1760-1766.

1. Silicones--Properties
2. Silicones--Solubility
- I. Andrianov, K. A.
- II. Zhdanov, A. A.
- III. Asnovich, Ye. Z.
- IV. ATS-16N48R
- V. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

(Chemistry--Physical, TT, v. 5, no. 7)

61-13990

Andrianov, K. A., Gribanova, O. I., and others.
STUDY OF THE POLYCONDENSATION REACTION
OF POLYETHYL-ENETEREPHTHALATE AND
POLYORGANOETHOXYSILOXANES. 7 Nov 60, 2p.
AID rept. 60-82; AD-246 711.
Order from LC or SLA m\$1.80, ph\$1.80 61-13990

Abstract trans. of Vysokomolekulyarnyye Soyedin-
eniya (USSR) 1960, v. 2, no. 4, p. 521-525.

An organosilicon polymer with active ethoxy groups
was synthesized by heterocondensation of methyl
phenyl ethoxysilane chloride with phenyl triethoxysil-
ane in a molar ratio of 1:0.5. The molecular weight
of the polymer was 600-800, and the content of the
ethoxy groups was 22.50%. The structure was as-
sumed to be linear, with ethoxy groups situated both
in the ends of the chain and as occasional side sub-
stituents. These active groups were then brought in
contact with active hydroxyl end groups of polyethyl-
(Materials--Patras, TT, v. 5, no. 4) (over)

1. Silicones--Polymerization
2. Phthalates--Polymerization
3. Condensation reactions
4. Varnishes--Development
5. Title: Block polymers
6. Title: Graft polymers
- I. Andrianov, K. A.
- II. Gribanova, O. I.
- III. AID-60-82
- IV. Air Information Div.,
Washington, D. C.
- V. AD-246 711

Office of Technical Services

61-12345

Andrianov, K. A., Nikitenkov, V. Ye., and
Sokolov, N. N.
SYNTHESIS OF ORGANOSILICON COMPOUNDS
FROM p-DIBROMOBENZENE. [1960] 4p.
Order from ATS \$6.00 ATS-30M46R

Trans. of *Akad[emiya] Nauk SSSR. Otdel[eniye]
Khim[icheskikh] Nauk. Izvest[iya] 1960, no. 7,
p. 1224-1226.

ATS-RJ-3250

1. Silicon compounds
(Organic)--Synthesis
2. Bromobenzenes--
Chemical reactions
- I. Andrianov, K. A.
- II. Nikitenkov, V. Ye.
- III. Sokolov, N. N.
- IV. ATS-30M46R
- V. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 5)

61-12364

Andrianov, K. A.
INNOVATIONS IN THE AREA OF SYNTHESIS OF
HETEROCHAIN HETEROORGANIC POLYMERS.
[1960] 30p.
Order from ATS \$39.95 ATS-47M46R

Trans. of Uspekhi Khim[11] (USSR) 1957, v. 26, no. 8,
p. 895-922.
Another translation is available from LC or SLA
ml\$3.30, ph\$7.80 as 60-17442, RTS-524, Nov 58
[44]p.

1. Silicon compounds (Organic)--
Polymerization
2. Title: Heterochain polymers
I. Andrianov, K. A.
II. ATS-47M46R
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 6)

The Condensation Reaction of Methylphosphonic Acid
with a,w-Diethoxydimethylsiloxanes, by
K. A. Andrianov, T. V. Vasil'yeva, L. M.
Khananashvili, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 6, 1961, pp 1030-1035

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Synthesis of Organosilicon Compounds
Containing Phenylsiloxane Molecular
Chains, by K. A. Andrianov, V. E.
Nikitenkov, 3 pp.

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SSSP, Otdel Khim Nauk, No 3, 1961,

pp441-444.

CB

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The Thermal Condensation of Dichlorosilane
With Chlorobenzene, by K. A. Andriyanov,
V. I. Savushkina, 4 pp.

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No 1, 1961, pp 95-98.

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ROUTES FOR THE SYNTHESIS OF THREE-DIMENSIONAL
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BY K. A. ANDRIANOV, 4 PP.

RUSSIAN, PER, DOK AK NAUK SSSR, VOL CXL, NO 6,
1961, PP 1310-1313.

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Andrianov, K. A. and Novikov, V. M.
POLY-(BUTYL METHYLPHOSPHONO-ALUMINOX-
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DESCRIPTORS: *Polymers, Lubricants, Synthesis,
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Research is summarized dealing with organosilicon
compounds suitable for the preparation of resins, film-
forming substances, lubricants and insulating fluids.
These compounds are characterized by the presence of
a siloxane group, in consequence of which they show a
tendency to undergo condensation. Alkyl and aryl silane
chlorides are hydrolyzed by water and the products of
hydrolysis are simultaneously condensed to high molec-
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